



Future Force Warrior (FFW)

Overview:

The Future Force Warrior (FFW) Advanced Technology Demonstration (ATD) is the Army's Flagship Science and Technology Program to develop and demonstrate revolutionary warfighting capabilities for Soldiers while greatly reducing Soldier fighting load and power requirements. The FFW ATD will transition to the Land Warrior program for fielding in FY10 as the Land Warrior Advanced Capability.

"The Future Force Warrior will be a Formidable Warrior in an Invincible Team, Able to See First, Understand First, Act First, and Finish Decisively."

Description:

Modernizing the Warrior through Army Transformation: FFW is the Army's flagship Science and Technology initiative to develop and demonstrate revolutionary capabilities for the individual Soldier and small team. An integrated system of systems approach is being employed to support the Army's transformation to a Soldier-centric force.

FFW notional concepts seek to create a lightweight, overwhelmingly lethal, fully integrated individual combat system, including weapon, head-to-toe individual protection, netted communications, soldier worn power sources, and enhanced human performance. Capabilities will be distributed across the team to optimize warfighting performance at the small combat unit level. The program is aimed at providing unsurpassed individual & small team lethality, survivability, communications, and responsiveness — a formidable warrior in an invincible team. FFW will also be developed to fully integrate with FCS. FFW is investing in the Soldier.

Lethality Vision: Integrated, advanced, lightweight weapons and fire control software and hardware; optimized for urban combat, with synchronized direct and indirect fires from FCS.

Survivability Vision: Lightweight, low-bulk, multi-functional, full spectrum protective combat ensemble. Providing ballistic protection, novel signature management, semi-permeable membrane for CB/wet protection; electro-textile power/data body PAN. On-board physiological/medical sensor suite with enhanced casualty care. Customized voice, tactile, visual and auditory human interface with integrated laser eye protection.

Sensors & Communications (C4ISR) Vision: Netted FFW small unit/teams with robust team communications, state-of-the-art distributed and fused sensors, organic tactical intelligence/collection assets, enhanced situational understanding, embedded training, on-the-move planning, and linkage to other Future Force assets.

Power Vision: 24-hour autonomous individual operation and 72-hour continuous autonomous team operations, high density, low weight/volume, self-generating/re-generating, reliable, safe power source/system.

Mobility, Sustainability and Human Performance Vision: Unconstrained vertical and lateral movement at full up combat/assault capability during mission execution. Optimized cognitive and physical fightability, on-board physiological/medical sensor suite with enhanced prompt casualty care.

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